

## LEAKAGE DETECTOR FOR BATH ROOM FLOOR HEATING

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**Inventor:** TAKEUCHI SHINICHI; KUWABARA NOBUMORI;  
YANAGI SHINSUKE  
**Applicant:** MATSUSHITA ELECTRIC IND CO LTD  
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### Abstract of JP11132484

**PROBLEM TO BE SOLVED:** To obtain a leakage detector for bath room floor heating in which detection current is decreased while eliminating leakage breaker. **SOLUTION:** A heater wire 21 comprising a heating wire 1 and a signal wire 18 are embedded in the floor of bath room. The signal wire 18 is shorted-circuited at the opposite ends thereof and connected with one side of a commercial power supply 3 through a diode 22, a first resistor 23 and a second resistor 24 connected with a smoothing capacitor 25. The voltage induced across the second resistor 24 is inputted to a comparator 26 and leakage is detected based on the output therefrom. According to the circuitry, leakage can be detected without requiring any leakage breaker while decreasing the detection current.

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